

Title (en)
Oil pump apparatus

Title (de)
Ölpumpenvorrichtung

Title (fr)
Appareil à pompe à huile

Publication
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Application
EP 11168033 A 20110530

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Abstract (en)
If a vehicle starts off after an engine idle stop, an auxiliary pump is switched on and delivers oil until the main oil pump driven by the engine delivers an sufficient amount of oil. If at this point the suction pipe is not emerged in the oil reservoir, e.g. during a stop on an uphill road, the suction pipe runs empty and is filled with air only. Thus, the auxiliary pump is unable to deliver oil. The invention provides a siphon-like pipe with a reservoir which does not run empty during tilt: An oil pump apparatus for supplying an oil to a vehicular transmission includes a pump (2) to suck the oil from an oil reservoir (18) through an inlet port into a pumping chamber, and an intake circuit (5) to convey the oil sucked from the oil reservoir (18) to the inlet port. The intake circuit (5) includes a proximal segment (51), an intermediate segment (52) and a distal segment (53). The proximal segment (51) extends from the inlet port, to the intermediate segment (52). The intermediate segment (52) extends upwards from the proximal segment (51). The distal segment (53) extends downwards from a first connecting end portion (53b) connected with the intermediate segment (52) to a end portion formed with a suction opening (53a) to suck the oil from the oil reservoir (18).

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Citation (applicant)
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• JP 2010124300 A 20100603 - CLARION CO LTD

Citation (search report)
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• [A] JP H07229554 A 19950829 - HINO MOTORS LTD
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